CLAIMS LISTING

- 1.(previously presented) A process for continuously manufacturing boron nitride utilizing a graphite capsule/vessel container for a reaction mixture and utilizing a pusher-type of high-temperature furnace and comprising the steps of:
 - during a preheat step: pushing the graphite capsule/vessel through hot zones such that the reaction mixture is heated uniformly throughout its cross-sectional area and is held at or below 1000°C.; and
 - during a ultra-high-temperature heating step: pushing the graphite capsule/vessel through hot zones such that the reaction mixture is heated uniformly throughout its cross-sectional area and is held in the range of 1600 to 2200°C.
- 2.(previously presented) The process of claim 1 wherein, during the preheat step, the reaction mixture is held at or below 1000°C until about 80 weight percent of the initial starting weight is volatilized.
- 3.(previously presented) The process of claim 1 wherein, during the ultra-high-temperature heating step, the reaction mixture is held in the range of 1600 to 2200°C until 2 weight percent of the initial starting weight is volatilized.

- 4.(previously presented) The process of claim 1 wherein, during the ultra-high-temperature heating step, the temperature is held in the range of 1900 to 2000°C.
- 5.(previously presented) The process of claim 4 wherein the time in the the ultra-hightemperature heating step is one to two hours.
- 6.(original) The process of claim 1 further comprising a counterflow of nitrogen such that the offgassing products are directed towards the furnace entrance, up and out into an afterburner where the noxious gases are eliminated by time and temperature.
- 7.(original) The process of claim 1 wherein said boron nitride is of uniform consistency of crystallinity and purity due to the uniformity of the temperature over its cross-sectional area during the preheat step and during the ultra-high-temperature step.
- 8.(original) The process of claim 1 wherein said boron nitride has an overall purity of over 95% boron nitride and has a uniform smooth feel, when tested by finger rubbing, when the material is selected from anywhere within the cross sectional area of the graphite capsule/vessel container.
- 9.(previously presented) The process of claim 1 wherein said preheat step is maintained until 80 wt% of said reacting mixture is volatilized.

10.(previously presented) A process for continuously manufacturing boron nitride utilizing a graphite capsule/vessel container for a reaction mixture and utilizing a pusher-type of high-temperature furnace comprising the steps of:

pushing a graphite capsule/vessel through hot zones such that the reaction mixture is heated uniformly throughout its cross-sectional area and is held at or below 1000°C in a counterflow of nitrogen; and

pushing the graphite capsule/vessel through hot zones such that the reaction mixture is heated uniformly throughout its cross-sectional area and is held in the range of 1600 to 2200°C until 80 wt% of said reaction mixture is volatilized.